AUTODOC CLUB

How to change rear upper arm on **Mercedes ML W163** – replacement guide

VIDEO TUTORIAL

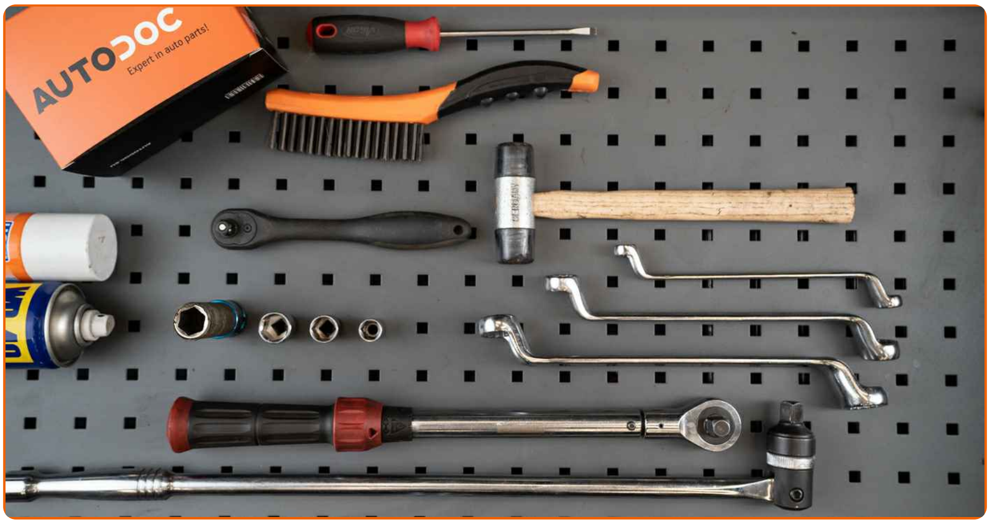


Important!

This replacement procedure can be used for:
MERCEDES-BENZ M-Class (W163) ML 320 (163.154), MERCEDES-BENZ M-Class (W163) ML 230 (163.136), MERCEDES-BENZ M-Class (W163) ML 430 (163.172), MERCEDES-BENZ M-Class (W163) ML 55 AMG (163.174), MERCEDES-BENZ M-Class (W163) ML 400 CDI (163.128), MERCEDES-BENZ M-Class (W163) ML 500 (163.175), MERCEDES-BENZ M-Class (W163) ML 350 (163.157), MERCEDES-BENZ M-Class (W163) ML 350

The steps may slightly vary depending on the car design.

REPLACEMENT: REAR UPPER ARM – MERCEDES ML W163. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #13
- Combination spanner #18
- Combination spanner #19
- Combination spanner #21
- Impact socket №10
- Impact socket №13
- Impact socket №21
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Hammer
- Flat Screwdriver
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

Replacement: rear upper arm – Mercedes ML W163. Tip from AUTODOC experts:

- The replacement procedure is identical for the right and left upper control arms.
- All work should be done with the engine stopped.

REPLACEMENT: REAR UPPER ARM – MERCEDES ML W163. USE THE FOLLOWING PROCEDURE:

1. Secure the wheels with chocks.
2. Loosen the wheel mounting bolts. Use wheel impact socket #17.
3. Raise the rear of the car and secure on supports.
4. Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. Mercedes ML W163

5 Remove the wheel.



6 Unscrew the ABS sensor fastening from the steering knuckle. Use a drive socket #10. Use a ratchet wrench.



7 Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.

8 Unscrew the top fastening of the ball joint. Use a combination spanner #19.



9 Disconnect the ball joint from the steering knuckle. Use a hammer.



10 Remove the shock strut mount cap. Use a flat screwdriver.



11 Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.

12 Loosen the upper fastener of the shock strut mount. Use a combination spanner #13. Use a drive socket #13. Use a ratchet wrench.

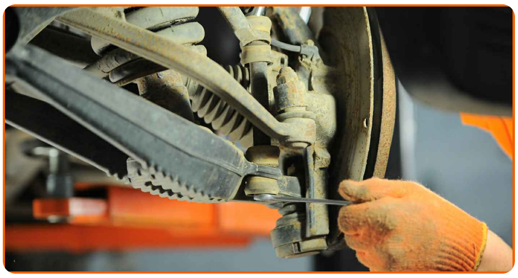


13 Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.

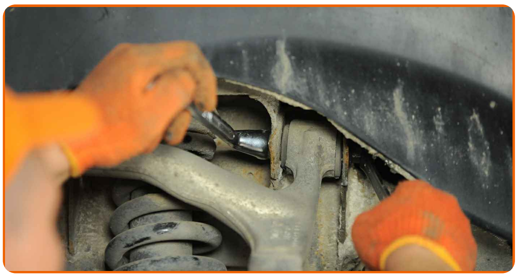
14 Unscrew the fastener connecting the stabilizer link to the control arm. Use a combination spanner #13 (2 pieces).



15 Unscrew the fasteners connecting the stabiliser link to the stabiliser bar. Use a combination spanner #13.

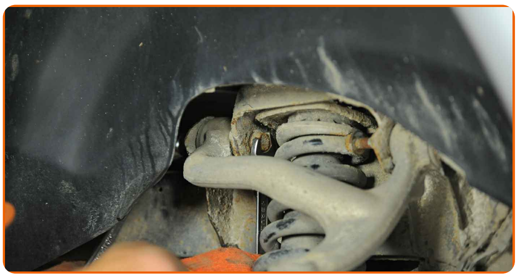


16 Unscrew the front arm fastener. Use a combination spanner #18 (2 pieces).



17 Remove the fastening bolt. Use a hammer.

18 Unscrew the rear fastener connecting the control arm to the subframe. Use a combination spanner #18 (2 pieces).



19 Unscrew the lower arm fastening. Use a combination spanner #21. Use a drive socket #21. Use a ratchet wrench.

20 Remove the fastening bolts.

21 Detach the lower control arm.



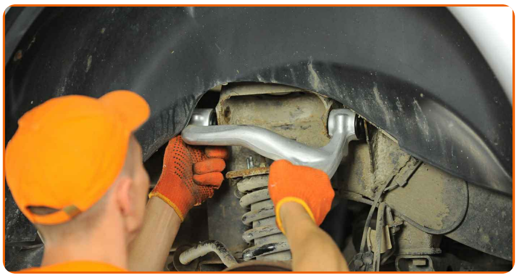
22 Remove the fastening bolt.

23 Remove the upper control arm.



24 Clean the mounting seats and the thread of the suspension arm. Use a wire brush. Use WD-40 spray.

25 Install a new upper control arm.



Replacement: rear upper arm – Mercedes ML W163. Professionals recommend:

- During the installation process, use only new bolts and nuts.
- Do not damage the ball joint cover.
- Position the control arm according to its mounting holes.

26 Install the fastening bolts.

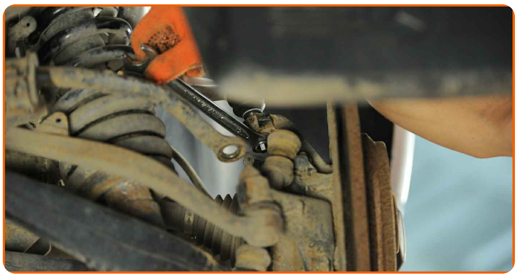
27 Attach the lower control arm. Use a flat screwdriver.

28 Install the fastening bolts. Use a hammer.



29 Connect the ball joint to the steering knuckle.

30 Screw the fasteners of the ball joint. Use a combination spanner #19.

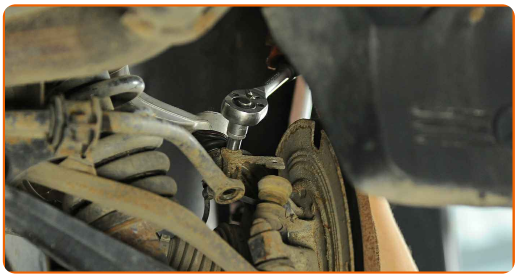


31 Tighten the upper fastener of the shock absorber strut mount. Use a combination spanner #13. Use a drive socket #13. Use a torque wrench. Tighten it to 20 Nm torque.

32 Install the shock strut mount cap.



33 Tighten the top fastening of the ball joint. Use a combination spanner #19. Use a torque wrench. Tighten it to 50 Nm torque.

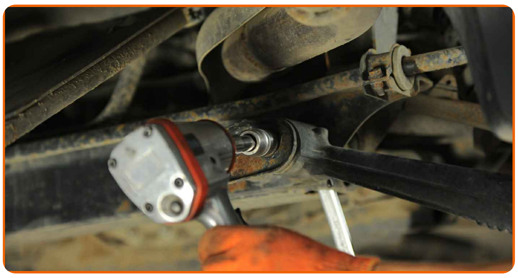


34 Screw in the fastener that connects the ABS sensor to the rear knuckle. Use a drive socket #10. Use a ratchet wrench.

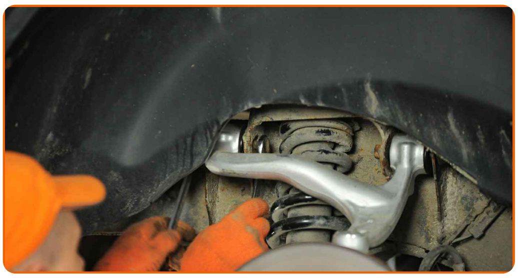
35 Support the arm. Use a hydraulic transmission jack.



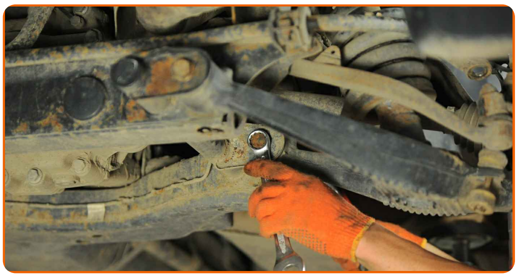
36 Tighten the lower arm fastening. Use a combination spanner #21. Use a drive socket #21. Use a torque wrench. Tighten it to 135 Nm torque.



37 Tighten the rear fastener connecting the control arm to the subframe. Use a combination spanner #18 (2 pieces). Use a torque wrench. Tighten it to 120 Nm torque.



38 Tighten the front fastener connecting the control arm to the subframe. Use a combination spanner #18 (2 pieces). Use a torque wrench. Tighten it to 120 Nm torque.



39 Remove the support from under the arm.

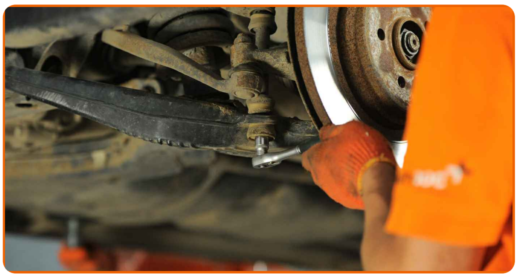
AUTODOC recommends:

- Replacement: rear upper arm – Mercedes ML W163. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

40 Tighten the fastener connecting the stabilizer link to the stabilizer bar. Use a combination spanner #13. Use a torque wrench. Tighten it to 28 Nm torque.



41 install the rod fastening to the stabilizer and tighten it. Use a combination spanner #13. Use a torque wrench. Tighten it to 28 Nm torque.



42 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

43 Clean the brake disk surface. Use a brake cleaner.



Replacement: rear upper arm – Mercedes ML W163. Tip from AUTODOC:

- After applying the spray, wait a few minutes.

44 Install the wheel.



AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. Mercedes ML W163

45 Screw in the wheel bolts. Use wheel impact socket #17.



46 Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 150 nm torque.

47 Remove the jacks and chocks.

WELL DONE!

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